

Datasheet for ABIN3078000 CYP26A1 Protein (AA 1-497) (Strep Tag)



Overview

Quantity:	1 mg
Target:	CYP26A1
Protein Characteristics:	AA 1-497
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CYP26A1 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MGLPALLASA LCTFVLPLLL FLAAIKLWDL YCVSGRDRSC ALPLPPGTMG FPFFGETLQM
	VLQRRKFLQM KRRKYGFIYK THLFGRPTVR VMGADNVRRI LLGEHRLVSV HWPASVRTIL
	GSGCLSNLHD SSHKQRKKVI MRAFSREALE CYVPVITEEV GSSLEQWLSC GERGLLVYPE
	VKRLMFRIAM RILLGCEPQL AGDGDSEQQL VEAFEEMTRN LFSLPIDVPF SGLYRGMKAR
	NLIHARIEQN IRAKICGLRA SEAGQGCKDA LQLLIEHSWE RGERLDMQAL KQSSTELLFG
	GHETTASAAT SLITYLGLYP HVLQKVREEL KSKGLLCKSN QDNKLDMEIL EQLKYIGCVI
	KETLRLNPPV PGGFRVALKT FELNGYQIPK GWNVIYSICD THDVAEIFTN KEEFNPDRFM
	LPHPEDASRF SFIPFGGGLR SCVGKEFAKI LLKIFTVELA RHCDWQLLNG PPTMKTSPTV
	YPVDNLPARF THFHGEI
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
	system, a different complexity of the protein could make another tag necessary. In case you

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	have a special request, please contact us.
Characteristics:	Key Benefits:
	 Made in Germany - from design to production - by highly experienced protein experts. Protein expressed with ALiCE® and purified in one-step affinity chromatography These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed). State-of-the-art algorithm used for plasmid design (Gene synthesis).
	This protein is a made-to-order protein and will be made for the first time for your order. Our
	experts in the lab try to ensure that you receive soluble protein.
	The big advantage of ordering our made-to-order proteins in comparison to ordering custom
	made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
	Expression System:
	 ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
	 Concentration: The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured against its specific reference buffer. We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

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Target Details	
Target:	CYP26A1
Alternative Name:	CYP26A1 (CYP26A1 Products)
Background:	Cytochrome P450 26A1 (CYP26A1) (EC 1.14.13) (Cytochrome P450 retinoic acid-inactivating
	1) (Cytochrome P450RAI) (hP450RAI) (Retinoic acid 4-hydroxylase) (Retinoic acid-metabolizing
	cytochrome),FUNCTION: A cytochrome P450 monooxygenase involved in the metabolism of
	retinoates (RAs), the active metabolites of vitamin A, and critical signaling molecules in animals
	(PubMed:22020119, PubMed:9228017, PubMed:9716180). RAs exist as at least four different
	isomers: all-trans-RA (atRA), 9-cis-RA, 13-cis-RA, and 9,13-dicis-RA, where atRA is considered to
	be the biologically active isomer, although 9-cis-RA and 13-cis-RA also have activity (Probable).
	Catalyzes the hydroxylation of atRA primarily at C-4 and C-18, thereby contributing to the
	regulation of atRA homeostasis and signaling (PubMed:22020119, PubMed:9228017,
	PubMed:9716180). Hydroxylation of atRA limits its biological activity and initiates a degradative
	process leading to its eventual elimination (Probable). Involved in the convertion of atRA to all-
	trans-4-oxo-RA. Able to metabolize other RAs such as 9-cis, 13-cis and 9,13-di-cis RA (By
	similarity) (PubMed:9228017). Can oxidize all-trans-13,14-dihydroretinoate (DRA) to
	metabolites which could include all-trans-4-oxo-DRA, all-trans-4-hydroxy-DRA, all-trans-5,8-
	epoxy-DRA, and all-trans-18-hydroxy-DRA (By similarity). May play a role in the oxidative
	metabolism of xenobiotics such as tazarotenic acid (PubMed:26937021).
	{EC0:0000250 UniProtKB:055127, EC0:0000269 PubMed:22020119,
	ECO:0000269 PubMed:26937021, ECO:0000269 PubMed:9228017,
	ECO:0000269 PubMed:9716180, ECO:0000305 PubMed:22020119,
	ECO:0000305 PubMed:9228017}.
Molecular Weight:	56.2 kDa
UniProt:	043174
Pathways:	Retinoic Acid Receptor Signaling Pathway, Monocarboxylic Acid Catabolic Process
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from
	Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce
	even the most difficult-to-express proteins, including those that require post-translational

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	modifications.
	During lysate production, the cell wall and other cellular components that are not required for
	protein production are removed, leaving only the protein production machinery and the
	mitochondria to drive the reaction. During our lysate completion steps, the additional
	components needed for protein production (amino acids, cofactors, etc.) are added to produce
	something that functions like a cell, but without the constraints of a living system - all that's
	needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
	Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

Expiry Date:

12 months